103p117v/voa

A-0U04-000082

EG&G ER Department Rocky Flats Plant

ER DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Bato	ch No. <u>9103P117</u>		Site Solar Ponds
Lab	oratory <u>IT-Pittsburgh</u>		No. of Samples/Matrix 2/Water
SOV	W # 10/86 (Rev. 2/88)		Reviewer Org. OuantaLex. Inc.
Sam	ple Numbers <u>SW00962W</u>	C. SW00963W	C
		Data A	Assessment Summary
		VOA	Comments
1.	Holding Times		
2.	GC/MS Tune/Instr. Perf.	X	Comment 1
3.	Calibrations	A	Action Items 1.2; Comments 1,2,3
4.	Blanks	A	Action Item 3: Comment 4
5.	Surrogates	V	
6.	Matrix Spike/Dup.	V	
7.	Other QC	V	Comment 5
8.	Internal Standards	V	
9.	Compound Identification	X	Comment 6
10.	System Performance	v	
11.	Overall Assessment	A	Data acceptable with qualifications.
	 V = Data had no problems. A = Data acceptable but qualified due to R = Data rejected. X = Problems, but do not affect data. 	problems.	
Dat	a Quality: Data contained in thi	s batch were revie	wed and found to be acceptable with qualifications. Acceptable,
<u>qua</u>	lified data may be used provided the	at individual value	s impacted by the "Action Items" listed below are appropriately flagged
(Re	fer to attached Data Summary Table	es.)	

Action Items: 1) The %D for Bromomethane exceeded 50% in the 3/14/	91 (1504) continuing calibration. The
non-detected result for Bromomethane in sample SW00963WC is rejected (R).
2) The %Ds for Acetone exceeded 50% in both continuing calibrations.	The positive results for Acetone in the
samples would be estimated (J) if not for blank contamination (see Action Ite	m 3).
3) As a result of method blank contamination, the positive results for Ac	etone in both samples are reported as
undetected and estimated (J) according to the Functional Guidelines criteria (10x rule).
Comments: 1) The raw data for the 3/17/91 (2134) BFB tune and the ass	ociated initial calibration raw data
were not included in this data package. The missing data were copied from b	atch P118 and inserted in this data
package.	
2) The Form 7As and raw data for the continuing calibrations were not in	ncluded in this data package.
Resubmittal was requested and the resubmitted data were inserted into the car	se.
3) The %Ds for several compounds exceeded 25% in the continuing cali	brations. No action is taken because
there were no positive results for these compounds in the associated samples.	
4) One TIC, a Bromofluoro Benzene isomer was found in method blank	VBLK1.
5) Instrument detection limits were provided by the laboratory, demonst	rating that the instrument was
sensitive below the Contract Required Quantitation Limits (CRQLs).	
6) The mass spectrum for Chlorobenzene was not present in method blan	nk VBLK2. No action is taken as this
compound was not found in the associated sample.	
Note: Data Summary Tables are attached.	
Mioa C. Lewy	6/20191
Validator Signature	Date
Reviewer Signature	6/19/91
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	*	PARAMETER NAME	Benzene	Benzene	Benzene	Benzene	Benzene	Bromodichloromethane	Bromodichloromethane	Bromodichloromethane	Bromofluorobenzene	Bromofluorobenzene	Bromofluorobenzene	Bromoform	Bromoform	Вготоботи	Вголютейале	Bromomethane	Bromomethane	Carbon disulfide	Carbon disulfide	Carbon disulfide	Carbon tetrachloride	Carbon tetrachloride	Carbon tetrachloride	Chlorobenzene	Chlorobenzene	Chlorobenzene	Chlorobenzene	Chlorobenzene	Chloroethane	Chloroethane	Chloroethane	Chloroform	Chloroform	Chloroform	Chloromethane	Chloromethane	Chloromethane	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene	cis-1,3-Dichloropropene	Dibromochloromethane
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DATE THE	BATCH	SAMPL.	SAMPLE	LAS DATE	DATE TIME	SAMPLE	PAMEL RS	MINNER CAS	ANALYTI QUA		2 SIG O	OF TEASU	TIME PAS	PARAMETER NAME	DETECTION REASONS LIMIT V 1 2 3	2 3 4	RESULT	OF MEASU
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03/14/91	P117 03/19/91	τ	Q10312002A	VdII	03/20/91	VBLK3-20-91 1539	VOCCIPICE TR 124 48-1	124-48-1	5	Ω	Ď	UG/L	Dib	Dibromochloromethane	s.0000 v			
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03/14/91	P117 03/19/91	WATER	Q10312002A	TPA TTPA	16/02/60	VBLK3-20-91 1539	VOCELPTCL MS 100-41-4	100414	5	Ω	ū	UGAL	뛴	Ethylbenzene	5,0000			
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03/14/91	P117 03/19/91	WATTER	Q10312002A	TIPA	16/02/20	VBLK3-20-91 1539	VOCCLPTCL MS 75-09-2	75-09-2	3	ſ	Ď	UG/L	Mei	Methylene chloride	3.0000	_		
03/14/91	Γ.	_	Q10312002A	ШРА	18/02/60	VBLK3-20-91 1539	VOCCLETICA TR 75-09-2	75-09-2	1	1	n	UGAL	Me	Methylene chloride	\$.0000 A	_		
03/14/91	I	Τ	Q10512002A	TPA	03/20/91	VBLK3-20-91 1539	VOCCIPICE, MS 75-09-2	75-09-2	5	D	n	G/L.	Me	Methylene chloride	5.0000			
03/14/91	P117 03/19/91	WATEK	Q10512002A	ТРА	03/20/91	VBLK3-20-91 1539	VOCCLPTCL TR 100-42-5	100-42-5		Ω	n	UG/L	Styr	Styrene	s.0000 v			
03/14/91	P117 03/19/91	Ţ	Q10312002A	MAL	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 100-42-5	100-42-5	5	Ω	Ū	UGAL	Styr	Styrene	3.0000			
03/14/91	P117 03/19/91	WATER	QICSIZOCZA	MPA	16/02/50	VBLK3-20-91 1539	VOCCLETCE, MS 100-42-5	100-42-5	5	Ω	n	DQ/L	Styr	Styrene	9:0000			
03/14/91	P117 03/19/91	_	Q10812002A	TPA TTPA	03/20/91	VBLK3-20-91 1539	VOCCIPICE TR 127-18-4	127-18-4	5	n	ŭ	UGAL	Tet	Tetrachloroethene	s.0000 v			
16/1/20	P117 03/19/91	WATER	Q10312002A	Мъм	03/20/91	VBLXG-20-91 1539	VOCCLPTCL MS 127-18-4	127-18-4	5	n	ŭ	UGAL	Ten	Tetrachloroethene	9:0000			
03/14/91	P117 03/19/91	Г -	Q10312002A	MPA	16/02/50	VBLK3-20-91 1539	VOCCIPICE MS 127-18-4	127-18-4	5	n	ñ	UGAL.	Тер	Tetrachioroethene	0000'S			
03/14/91	P117 03/19/91	WATER	Q10312002A	TTPA	16/02/50	VBLK3-20-91 1539	VOCCLPTCL MS 108-88-3	108-88-3	103		*		Tol	Toluene	5.0000			
03/14/91	P117 03/19/91	τ	Q10312002A	ΠPA	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 108-88-3	108-88-3		Ω	ū	UG/L	Tol	Toluene	5.0000			
03/14/91	P117 03/19/91	ι	Q10312002A	Y ₄ E	16/02/20	VBLX3-20-91 1539	VOCCLPTCL MS 108-88-3	108-88-3	102		8		Tol	Toluene	3.0000			
03/14/91	P117 09/19/91	WATER	Q10312002A	TPA TTPA	16/02/60	VBLK3-20-91 1539	VOCCL PTCL MS 108-88-3	108-88-3	5	n	ū	UG/L	Tol	Toluene	\$.0000			
03/14/91	P117 03/19/91	Т	Q10312002A	¥Æ	03/20/91	VBLK3-20-91 1539	VOCCIPIC TR 108-88-3	108-88-3	5	n	Ď	UG/L	Tol	Tolucne	s.0000 v	4		
03/14/91	P117 03/19/91	П	Q10312002A	V _{all}	03/20/91	VBLK3-20-91 1539	VOCCEPTCE, SU VOA-SURI	VOA-SURI	105		*		Tol	Toluene-D8				
03/14/91	P117 03/19/91	_	Q10312002A	TPA	16/02/50	VBLK3-20-91 1539	VOCCIPICE SU VOA-SURI	VOA-SURI	95		*		Tol	Tolucae-D8		4		
03/14/91	P117 03/19/91	WATER	Q10312002A	шъ	03/20/91	VBLK3-20-91 1539	VOCCIPICE SU VOA-SURI 100	VOA-SURI	100		₽.	1	Tol	Toluene-D8		-		
03/14/91			Q10312002A	пра	03/20/91	VBLK3-20-91 1539	VOCELPTCL, MS 1330-20-7	1330-20-7	5	p	Ď	UGAL	Tot	Total Xylenes	3.0000	+		
03/14/91	P117 08/19/91	WATER	Q10312002A	FIPA	16/02/20	VBLK3-20-91 1539	VOCE-PICE, MS 1330-20-7	1330-20-7	5	5	2	UQ/L	To	Total Xylenes	9:000	1		
03/14/91	P117 03/19/91	WATER	Q10312002A	TPA TTPA	03/20/91	VBLK3-20-91 1539	VOCEPTCE TR 1330-20-7	1330-20-7	5	n	ב	UG/L	ğ	Total Xylenes	s.0000 v	$\frac{1}{4}$		
03/14/91	P117 03/19/91	WATER	Q10312002A	ITPA	03/20/91	VBLK3-20-91 1539	VOCEPTCL MS 10061-02-6	10061-02-6	5	5	5	UGAL	Dag.	trans-1,3-Dichloropropene	9,000	+		
03/14/91	P117 03/19/91	WATER	Q10312002A	ШЪА	03/20/91	VBLK3-20-91 1539	VOCCIPICE TR 10061-02-6	10061-02-6		þ	Ď	UGAL	tran	trans-1,3-Dichloropropene	s.0000 v	-		
03/14/91	P117 03/19/91	WATER	Q10312002A	прА	03/20/91	VBLK3-20-91 1539	VOCCIPICE MS 10061-02-6	10061-02-6	5	5	Ď	UQ.	tran	trans-1,3-Dichloropropene	\$.0000	-		
03/14/91	P117 03/19/91	WATER	Q10312002A	ШЪА	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 79-01-6	29-01-6	5	p P	٥	UGA.	Ĕ	Trichloroethene	5.0000	1		
03/14/91	P117 03/19/91	WATER	Q10312002A	¥4E	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 79-01-6	79-01-6	8	1	*	1	Tri	Trichloroethene	3.0000	+		
03/14/91	P117 00/19/91	WATER	Q10312002A	ШРА	03/20/91	VBLK3-20-91 1539	VOCCLETICE TR 79-01-6	79-01-6	2			Z Z	Ţ	Trichloroethene	5.0000 A	$\frac{1}{1}$		
03/14/91	P117 03/19/91	WATER	Q10312002A	ITPA	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 79-01-6	9-10-62	¥		8		Ĕ	Trichloroethene	2,000	+		
03/14/91	P117 03/19/91	WATER	Q10312002A	ITPA	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 79-01-6	3-01-6	2	5	P	UG/L	Ţ,	Trichloroethene	5,000	+		
03/14/91	P117 03/19/91	WATER	QIGSI2002A	ITPA	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 108-05-4	108-05-4	2	5	7	UG/L	, N	Vinyl acetate	10.0000	1		
03/14/91	P117 03/19/91	WATER	Q10312002A	TTPA.	03/20/91	VBLK3-20-91 1539	VOCCLPTCL MS 108-05-4	108-05-4	10	5	a	UQ/L	5	Vinyl acetate	10.0000	7		
03/14/91	P117 03/19/91	WATER	Q10312002A	ИБА	16/02/50	VBLK3-20-91 1539	VOCCLPTCL TR 108-05-4	108-05-4	10	n	n	UGAL	Vin	Vinyl acetate	10.0000 v	-		
03/14/91	P117 03/19/91	Γ	Q10312002A	IIPA	03/20/91	VBLK3-20-91 1539	VOCCLP1CL MS 75-01-4	s 75-01-4	10	U	ū	UG/L	Vin	Vinyl chloride	10.0000			
03/14/91	P117 03/19/91	WATER	Q10312002A	Vali	03/20/91	VBLK3-20-91 1539	VOCCLPTCL TR 75-01-4	75-01-4	10	n	Ω	UG/L	Vin	Vinyl chloride	10.000 v			
030,4.6)	TOTAL PRINGE	WATTER.	WATTON O10312000A	TEPA	1800AFO	VBLK3-20-91 1539	4-10-27 PM CTW TOWN	\$ 75-01-4	91	=	Ξ	CON	Λı	Vinvl chloride	100000	_		

Z ≻ ΣН Q ۵ R22 , 3226A 2L89/90, CS137 0 0223/224, 235, 238 4002-410 Z IPZMA PU239/240, Σ B/A S2090 DOC IF FILTERED 70C _ TEMPERATURE WITHIN SPECIFICATION SZH ¥ ¥ OTHER PROBLEMS OR DISCREPANCIES PCKG REC'D/CUSTODY SEALS INTACT soud-o a PRO JECT *** NO3/NOS' tot Phos, SAMPLE LABELS/COCs AGREE 204, соз, нсоз, Бі (102 CORRECTED COPY ATTACHED I CI'E' 'SQL SSI I LABORATORY USE ONLY 9 CN g 's ɔ METALS OIL AND GREASE ш **TRIAZINES** PEST/PCB-CLP $\mathbf{\alpha}$ BNA-CLP ⋖ AOY-CFD Nazszoj W.L. GLASGOW, B.E. LAHN PRESERVATIVE **₽OSZH** 1630 × 0000 DATE/TIME HNO3 HOAN 3/24 ZU(CSH20S)S 3-1941 × COOLED TO 4 C SPEC REPORTS REQUIRED 250 050 TURN AROUND RUSH =R d=SSIQ LOd FILTERED=F SHIPMENT METHOD 2011(S) WATER (W) MEDIA 3 ₹ 3 NUMBER OF CONTAINERS CONTAINER 250 ML POLY 500 ML POLY RECEIVED BY 03/14/91 500 ML POLY Bruce LaRue (303) 966-5874 16-81-8 125 ML AG 125 ML AG 40 ML AG 11 POLY SAMPLERS. TYPE 11 POLY 11 POLY LAB/LOCATION WESTON GULF COAST /UNIV. PK.,IL 11 POLY 1 L AG LOCATION EG&G ROCKY FLATS PLANT 380MS 360MS **SW095** 360MS 360MS SW095 360MS 380MS 380MS SW095 360MS 380M6 DATE/TIME ENDBAZ / Seren WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTODY -0-C NUMBER WELLES 843 SAMPLE NUMBER SW00963WC SITE CONTACT/PHONE 5 x 9 7 4 RELINQUISHED BY 15351 1522 1525 1520 1512 529 CONTRACTOR_ 1515 T L251 1523 DATE/TIME REMARKS 3 17.41 トト

RADIATION SCREEN

000159

EG&G EM Department Rocky Flats Plant

EM DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Bat	ch No. <u>9103P117</u>		Site S	urface Water		
Lab	ooratory <u>ITAS - Pittsburgh</u>		No. of	Samples/Mat	trix <u>5/Water</u>	
so	W # <u>7/88</u>		Reviev	ver Org. <u>Qu</u> a	intaLex, Inc.	
San	nple Numbers <u>SW00962WC (total a</u>	nd soluble). S	W00963WC	(total and solu	uble), SW600	62WC
		Data Assessi	nent Summa	nry		
		ICP	AA	Hg	CN	Comments
1.	Holding Times	<u>v</u>	<u>v</u>	_A	_ <u>v</u>	Action Item 1
2.	Calibrations	v	_A	<u>v</u>	<u>v</u>	Action Item 2
3.	Blanks	A	A	<u>v</u>	_ <u>v</u>	Action Items 3-10
4.	ICP Interference Check Sample	A	N/A	N/A_	N/A	Action Items 11-14
5.	Matrix Spike Sample Results	A	A	A	v	Action Items 15-17
6.	Duplicate Sample Results	<u></u>	v	<u>v</u>	v	
7.	Lab Control Sample Results	V	v	<u>v</u>	v	
8.	Method of Standard Addition	N/A	<u>v</u>	N/A	N/A	
9.	Serial Dilution	v	N/A	N/A	N/A	
10.	Sample Verification	<u>v</u>	<u>v</u>	_ <u>v</u>	<u>v</u>	
11.	Other QC	<u>_x</u>	X	X	X	Comments 1-4
12.	Overall Assessment	A	A	A	v	Data valid, or acceptable with qualifications
	 V = Data had no problems. A = Data acceptable but qualified due to problems. R = Data rejected. X = Problems, but do not affect data. 				N/A = Not applic	cable.
Dat	a Quality: Data contained in this batch we	ere reviewed and	found to be va	lid, or acceptable	e with qualificati	ons. Acceptable,
qual	ified data may be used provided that individu	al values impact	ed by the "Action	on Items" listed l	below are approp	oriately flagged.
(Ref	er to attached Results Summary Tables).					

Action Items (cont.): 15) The Iron values for SW00963WC (total) and SW60	062WC are estimated (J)
because the pre-digestion matrix spike recovery criteria were not met.	
16) The Mercury for SW00963WC (soluble) is estimated (J) because the pre-dige	stion matrix spike recovery
criteria were not met.	
17) All Selenium values are estimated (J), and all non-detects are rejected (R) bec	ause the pre-digestion matrix
spike recovery criteria were not met.	
Comments: 1) Some soluble values are greater than their corresponding total value	ies.
2) The Cesium IDL was changed from 76.0 ppb to 80.0 ppb due to significant fig	ure discrepancy,
3) A post-digestion spike concentration of 6 ug/L was used for Lead. In order to	comply with SOW 7/88, the
post-spike concentration should have been 20.0 ug/L.	
4) The digestion (distillation) log does not indicate whether the final pH of the pr	epped samples is < 2 (> 12).
Note: Data Summary Tables are attached.	
	13 May 91
Validator Signature	Date
Edristing H. Comos	.5/12/91
Reviewer Signature	Date

															_					
PROJECT COLLECTION	ECTION IN			3		ANALYS	BLANK	TEST				_=	-	RETEN		NSTRUMENT			3 5	
SAMPLE DATE THE NUMBER MANDO/ PH:	# #	BATCH	SAMPL	SAMPLE	LAB DATE ID MBA/DD/	DATE DATE TIME MANDO HH:	SAMPLE	PANEL RS	CAS	ANALYT	충발	2 SKG O	OF TEASU	TION PARAMETER NAME		DETECTION REASONS	REASONS 1 2 3	OU RESULT		OF QUA
	$\overline{}$	Ī_	WATER	W84	19/22/91 04/10/91	04/10/91		DMETCLPTA TR		000.6	5	_	_	+		8	L	L		1
PBW	Ā	P117 03/19/91	WATER	PBW	16/01/90 16/52/60	04/10/91		DMETCL PTA TRO		8.000	ū	C	UG/L	Antimony		60.000	L			
PBW	E	P117 03/19/91	WATER	WBW	16/12/60 16/57/60	16/12/60		DMBTCLPTA TR	Ę	2.000	n	Ü	DO/L	Arsenic		10.0000			-	-
PBW	Ā	Г	WATER	PBW	16/52/60	04/10/91		DMBTCLPTA TR		1.000	n	2	UG/L	Barium		200.0000				\vdash
PBW	E	1	WATER	WBW	16/01/90 16/52/60	16/01/90		DMBTG_FTA_TR		1.000	n	2	UGAL	Beryllium		5.0000	-	L	-	-
*	-	ł	WATER	War	16/01/90 16/52/20	04/10/91		DMETCLPTA TR		2.000	2	-	UGAL	Cadmium		5.0000	L		-	H
PBW	E	P117 03/19/91	WATER	Way	19/25/91 04/10/91	04/10/91		DMETCLPTA TR		8.000	n	1	UQ/L	Calcium	•	5000.0000			_	\vdash
PBW	2			Way	19/25/91 04/01/91	04/01/91		DMETNOCL TR		76.000	n		UG/L	Cesium		1000,0000	L		L	H
PBW	-	Γ.	1	PBW	03/25/91 04/10/91	16/10/91		DMETGLPTA TR	_	5.000	5	2	UGAL	Chromium		10.000		L	-	-
PBW	-	P117 03/19/91	WATER	War	16/01/40 16/52/50	16/01/40		DMETCLPTA TR	_	3.000	n	2	UGAL	Cobalt		50.0000	L		-	-
PBW	E		1	MSM	16/01/90 16/52/50	04/10/91		DMETCLETA TR		2.900	æ	2	UQ/L	Copper		25.0000	-			H
PBW	-	ł	ı	PBW	16/12/50 16/02/50	03/21/91		SMETCLPTC TR		7.000	2	2	UGAL	Cyanide		10.0000			-	-
PBW	E	Г	T	PBW	16/01/90 16/52/60	16/01/90		DMBTCLPTA TR		39.100	B	2	UG/L	Iron		100,000			-	H
*	-	P117 03/19/91	WATER	M&	03/25/91	16/82/60		DARTICLPTA TR		1.000	2	-	UQ/L	Lead		3,0000			L	\vdash
PBW	_	P117 03/19/91		PgW	16/01/90 16/52/60	04/10/91		DMETNOCL. TR		009.6	m		UQ/L	Lithium		100.000	L		-	\vdash
PBW	E	P117 03/19/91	WATER	W8W	19/22/20	16/01/90		DMRTG_FTA TR		12.000	Ω	3	UO/L	Magnesium	-	2000.0000		L		\vdash
PBW	E		WATER	PBW	19/25/91 04/10/91	04/10/91		DMETCLPTA TR	5	1.000	n	n	UGAL	Manganese		15.0000	L		H	
PBW	Æ	16/61/80 1114	WATER	PBW	16/10/101 104/04/01	04/04/91		DMBTCLPTA TR		0.200	n	2	UGAL	Mercury		0.2000			L	H
PBW	E.	P117 03/19/91	WATER	WBW	03/25/91	16/01/50		DMETNOCL TR	7	4.500	В	1	UG/L	Molybdenum		200:000			_	
PBW	F.	P117 03/19/91	WATER	PBW	03/25/91 04/10/91	04/10/91		DMETCLPTA TR	9	-8.200	В	J.	UG/L	Nickel		40.000				\vdash
PBW	4	16/61/00 /11/4	WATER	WBW	16/01/90 16/52/60	04/10/91		DMBTCLPTA TR		51.000	n	٦	UGAL	Potassium	6	9000.0008				
PBW	£		WATER	PBW	03/25/91	03/26/91		DMETCLETA TR		2,000	ū	ŋ	UGAL	Selenium		5.0000			_	\vdash
PBW	E	P117 03/19/91	WATER	WBY	03/25/91 04/10/91	04/10/91		DMBTCLTA TR		3.000	D		UG/L	Silver		10,0000				
PBW	E	P117 03/19/91	WATER	PBW	03/25/91 04/10/91	04/10/91		DMETCLETA TR	0	16.200	В	٥	UG/L	Sodium	6	9000,0008				Н
PBW	H			PBW	03/25/91 04/10/91	04/10/91		DMBTNOCL TR	6	1.000	Þ	اد	UG/L	Strontium		200.000				
PBW	E.	1	WATER	₩8₩	16/82/20 03/28/91	16/82/50		DMETCLETA TR		1.000	Ω	٥	UGAL	Thallium		10.0000				
PBW	E	16/61/00 /11/4		PBW	03/25/91 04/10/91	04/10/91		DMETNOCL, TR		11.000	p	د	UGAL	Tin		200.000				
PBW	2	P117 03/19/91	WATER	PBW	03/25/91 04/10/91	04/10/91		DMETCLPTA TR		7000	2	7	UG/L	Vanadium		50.0000			-	1
PBW	P.		WATER	PBW	19/01/90 04/10/91	04/10/91		DMETCLPTA TR	,	7.200	П	2	UG/L	Zinc		20.0000			1	+
SW00962WC 03/14/91		P117 03/19/91	WATER	Q10312001A	03/25/91 04/10/91	04/10/91		DMETCLPTA TR		80.10	æ	2	UG/L	Aluminum		200.000 v			-	\dashv
SW00962WC 03/14/91		16/61/80 CITA	WATER	Q10312006A	16/01/90 16/52/60	16/01/90		SMETCLPTC TR	_	120.00	æ	-	UGAL	Aluminum		200.0000 v			-	-{
SW00962WC 03/14/91		P117 03/19/91	WATER	Q10312001A	03/25/91 04/10/91	04/10/91		DMSTCLPTA TRO		21.20	æ	2	UG/L	Antimony		6 VI 0000:09			-	+
SW00962WC 03/14/91		16/61/80 C114	WATER	Q10312006A	18/01/90 18/52/60	04/10/91		SMETCLPTC TR	_	21.50	В	-	UG/L	Antimony		3	6		-	+
SW00962WC 03/14/91		P117 03/19/91	WATER	Q10312006A	16/12/20 16/52/20	18/22/60		SMETCLPTC TR		5.00	Þ	2	UG/L	Arsenic		10.0000 v			-	+
SW00962WC 03/14/91			WATER	Q10312001A	18/12/20 18/52/20	03/27/91		DMETC PTA TR		5.00	₽		UGAL	Arsenic			1	-	+	+
SW00962WC 03/14/91		P117 03/19/91	WATER	Q10312001A	16/01/50 04/10/91	04/10/91		DMETCLPTA TR		224.00		-	UG/L	Barium		200,0000 v			1	+
SW00962WC 03/14/91		P117 03/19/91	MYLER	Q10312006A	18/02/20 04/10/91	04/10/91		SMETCLPTC TR		227.00		7	VG/L	Berium		200.000 v	\downarrow		+	+
SW00962WC 03/14/91		P117 03/19/91	WATER	Q10312006A	03/25/91 04/10/91	04/10/91		SMETCLIFIC TR		8	<u> </u>	1	UG/L	Beryllium		- 1		1	+	+
SW00962WC 03/14/91		P117 03/19/91	WATER	WATER Q1031,2001.A	03/25/91	03/25/91 04/10/91		DMETCLPTA TRE	٥	8.	5	-	UG/L	Beryllium		\$.0000 v	-	-	-	7
١	I							The same and the		5	;									

				× ×	SAMPLE					-	-							ļ	
			3		ANALYSIS	BLANK	TEST		_	25	_3	UNIT	RETEN	INSTRUMEN			3 1	2	_
DATE TIME	NUMBER	SALEPL	SAMPLE SAMPLE	LAB DATE DATE THE	E TIME	SAMPLE	PAMEL RIS	CAS	ANALYTI OFFILE	A S	296	OF TON	N. C.	DETECTION REASONS	REASONS				<
SW00962WC 03/14/91	16/81/00 TITA	WATER	Q10312001A	7	īšk		ΤĚ		_	_	$\overline{}$		1	\$.000	, ,	- KESMLI	2	3	<u> </u>
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312001A	03/25/91 04/10/91	. e.c.		DMRTCLPTA TRO		256000.00	L	Ď	UG/L	Calcium	10		L	+	H	Т
SW00962WC 03/14/91		WATER	Q16312006A	16/01/90 16/52/60	16/0		SMETCLPTC TRO		264000.00	L	5	UGAL	Calcium	y 0000,0008		L	-	╀	Т
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312001A	03/25/91 04/01/91	/91		DMETNOCL TRO			D	5	ng/L	Cesium	v 0000,0001		Ω0'08) UG/L	<u> </u>	Т
SW00962WC 03/14/91		WATER	V900210010	19/10/90 19/52/60	/81		SMETNOCLE TRO		76.00	_	5	UO/L	Cesium	v 000.0001	-	0.08	T	<u>}</u>	Т
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312006A	16/01/90 16/57/50	ž.		SAGETCL/TC TRO		13.60	-	5	UG/L	Chromium	AL 00000 IA	6	L	Т	2	Т
SW00962WC 03/14/91	l i	WATER	V10021501D	16/01/90 16/57/60	16/		DAGRICIPIA TRO			<u></u>	5	UGAL	Chromium	AL 000001			-	-	Г
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312006A	16/01/90 16/5750	iš.		SARTICUTEC TRG		3.00	þ	5	UGL	Cobalt	v 0000.02	H		+	+	Т
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312001A	16/01/90 16/57/60	Ę.		DMBTCLFTA TRO		3.00	ח	5	UOL	Cobalt	v 0000.02			-	╀	Т
SW00962WC 03/14/91	P117 03/19/91	WATER	V10021501∂	19/25/91 04/10/91	16/1		DMETCLPTA TRO		5.50 E	m	5	UG/L	Copper	25.0000 JA	-	L	ŀ	12	Ī
SW00962WC 03/14/91	16/61/20 1114	WATER	V900215010	16/01/90 16/52/60	16/		SACETIC TRO		200)]	5	UGAL	Copper	25.0000 v	-		\vdash	\vdash	Ι
SW00962WC 03/14/91	16/61/00 2114	MATER. (Q10312006A	16/17/50 16/02/50	16/		SABTCL PTC TRO		3.50	5	ă	UO/L	Cymide	v 00000 v	-		-	H	Γ
SW00962WC 03/14/91	16/61/20 L114	WATER (V90021501Ò	16/01/20 04/10/91	16/		MARTICATE TRO		110.00	ż	5	UGAL	Iron	100.0000 IA	-	L	-	┞	Т
SW00962WC 03/14/91		WATER	₹10001£01Ø	16/01/10 16/52/50	16/2		DMETCLITA TRO		31.30 E	BN.	5	UO/L	Iron	At 000:0001	-		-	\vdash	Т
SW00962WC 03/14/91		WATER	Q10312006A	16/82/20 16/52/20	16/		SARTCLFTC TRO		1.00	D.	Š	UG/L	Lead	3.0000	9			┞	Г
SW00962WC 03/14/91		WATER (Q100212001A	16/82/20 16/52/20	16/		DMBTCLPTA TRO		1.00	3	ă	UGAL	Lead	AL 0000.E	E		L	H	Т
SW00962WC 03/14/91	P117 03/19/91	WATER (Q10312001A	16/01/90 16/52/20	16/		DMETNOCL TRO		270.00	\vdash	5	חמער	Lithium	v 000.001	F		-	\vdash	Т
SW00962WC 03/14/91		WATER (Q10312006A	16/01/90 16/52/20	16/		SMITNOCLE TRO		272.00	_	5	UGA.	Lithium	v 0000,001	-	L	Ļ	H	Т
		WATER (Q10312001A	16/01/90 16/52/20	16/		DMETCLPTA TRO		78300.00		ă	UG/L	Magnesium	y 0000.0008			-	┞	Т
		WATER	Q10312006A	16/01/10 06/2/20	16/		SMETCLPTC TRO		79700.00		Š	DG/L	Magnesium	y 0000.0008	-			╀	Т
			Q10312001A	03/25/91 04/10/91	<u> </u>		DMETCLPTA TRO		1.00	_	n	UG/L	Manganese	15.0000 v	H		-	H	Г
	\neg	WATER (Q10312006A	03/25/91 04/10/91	ĩể		SMETCLPTC TRG			Ω	ñ	UG/L	Manganese	15.0000 JA	6		-	Þ	Г
	\neg	WATER (Q10312001A	04/04/91 04/04/91	166		DMETCLPTA TRO			Ŋ,	ΩC	UG/L	Mercury	0.2000 v				-	Γ
	- 1	WATER	Q10312006A	04/04/91 04/04/91	791		SMETCLPTC TRG			N S	Ω	UG/L	Mercury	0.2000 v	L			L	_
		WATER	Q10312006A	03/25/91 04/10/91	16/		SMETNOCLE TRO		11.10 B	_	ŭ	UG/L	Molybdenum	200,0000 1A	7		-	2	Г
	- 1	WATER	Q10312001A	19/25/91 04/10/91	16/		DIRETMOCL TRE		3.00 U		מכ	UQ/L	Molybdenum	200.0000 R	•			H	Г
	- 1	WATER	Q10312006A	03/25/91 04/10/91	18,		SMETCLPTC TRO			U	ň	U.O/L	Nickel	40.000 JA				2	Г
	- 1	WATER	Q10312001A	03/25/91 04/10/91	ē		DMETCLPTA TRG		4.00 U	_	ŭ	UG/L	Nickel	40.0000 v				L	Г
SW00962WC 03/14/91	1	WATER	Q10312001A	16/01/30 16/52/50	ē		DMBTCLPTA TRO		44500.00		ŭ	UG/L	Potassium	v 0000.0008			L		Г
	- 1	WATER	Q10312006A	03/25/91 04/10/91	16/		SARTICUPIC TRO		8		ň	UQ/L	Potassium	\$000.0000 v				H	Г
SW00962WC 03/14/91	- 1	WATER	Q10312001A	03/25/91 03/26/91	16/		DMETCLPTA TRO		3.00 E	BWN	ň	UC/L	Selenium	5.0000 IA	M 13 14			-	
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312006A	03/25/91 03/26/91	jē.		SMETCLITIC TRO			BWN	n	UGAL	Selenium	VI 0000'S	JA 13 14		_	L	r
		WATER	Q10312006A	16/01/90 16/52/50	160		SMETCLPTC TRG				ň	UG/L	Silver	м 0000:01	6			Э	
SW00962WC 03/14/91		WATER (Q10312001A	03/25/91 04/10/91	16/		DMETCLPTA TRG		3.40 B	_	Ω	UG/L	Silver	AL 0000.01	6			2	r
SW00962WC 03/14/91		WATER (Q10312006A	18/22/81 04/10/91	16/		SMERCLPIC TRO		360000.00		nc	UG/L	Sodium	V 0000.0008 V				_	
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312001A	19/02/91 04/10/91	160		DMETCLPTA TRO		356000.00		ň	UC/L	Sodium	v 0000,0008 v					
SW00962WC 03/14/91		WATER (Q10312006A	03/25/91 04/10/91	16/		SMETNOCLP TRG		2320.00	\dashv	ŭ	UQ/L	Strontium	200.0000 IA	6				
SW00962WC 03/14/91		WATER	Q10312001A	03/25/91 04/10/91	16/		DMETNOCL TRO		2250.00		ŭ	UG/L	Strontium	200.0000 IA	9				П
SW00962WC 03/14/91	16/61/20 1114	WATER	V100Z1EDIÒ	16/82/60 16/52/60	16/		DMBTCLFTA TRO			U	n	UQ/L	Thellium	AL 0000.01	80			Þ	Г
0.110				100000			Commence and The Co		201	TIM.	1		E					=	Г

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PROJECT COLLECTION	*		8		ANALYSIS	BLANK	TEST					_	RETEN		INSTRUMENT			THIS	
SAMPLE DATE TIME	ME BATCH	SAMPL	SAMPL SAMPLE	LAB DATE DATE THE	DATE TIME	SAMPLE	PANEL RS	CAS	ANALYTI PESULT	7 E	2 SIG C	OF THEASU	NOT I	PARAMETER MAME	DETECTION REASONS	REASONS 1 2 3	A DESUIT		OF QUA
:WC	Ē	WATER	Q10312006A	Т	16/0		Ð		_	╄		UG/L	T	Tin	8	-	Ĺ	Т	<u> </u>
Γ	16/61/00 1114	WATER	Q10312001A	16/01/20 16/25/20	16/0		DMETNOCL TRO		T	m	ľ	NOV	F	Tia		_	L	ŀ	10
Γ	P117 03/19/91	WATER	Q10312006A	18/01/10 18/52/20	16/0		SMISTCLPTC TRO			B		UG/L	^	Vanadium	y 00000.08		L	-	+
Γ	P117 03/19/91	WATER	Q10312001A	18/07/20 18/52/20	16/0		DMETCLPTA TRO		09.7	B	ر	UG/L	^	Vanadium	y 0000.08			-	-
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312001A	03/25/91 04/10/91	16%		DMETCLPTA TRO		41.00	\vdash	۲	UGAL	2	Zinc	20,0000 IA	6		_	Þ
SW00962WC 03/14/91	P117 03/19/91	WATER	Q10312006A	16/01/90 16/52/50	0/81		SMETCLPTC TRO		11.60	В	ו	no/r	7	Zinc	20.0000 IA	6 7			Ω
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/01/90 16/52/60	16/0		DMRTG_FTAD		129.9160 B	В	1	UGAL	₹	Aluminum	200,0000				
SW00963WC 03/14/91	19/61/20 1114	WATER	Q10312002A	18/01/91 04/10/91	16/0		DMBTCLPTA S1		7:56	Н	5	*	4	Ahminum	200.0000				H
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	19/01/90 19/57/50	16/0		SARTCLPTC D		0	В	1	UG/L	٧	Ahminum	200,0000				Н
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/50	16/0		SMETCLFIC TRO			В	1	UG/L	٧	Aluminum	200,0000 v				Н
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/01/90 16/52/50	16/0		DMETCLFTA TRO		8	В	1	UGAL	4	Ahminum	200.000 v			_	Н
	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/20	is6		SASTCLPTC S1		94.5		*	L	۲	Aluminum	200.0000			-	
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/01/90 16/52/50	16/0		DMETCLPTA S1		101.5		*		٧	Antimony	90,000				Н
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/50	iş6		SMETCLPTC TRO			В	1	UGAL	٧	Antimony	AL 0000.09	6			H
	P117 03/19/91	WATER	Q10312002A	16/01/91 04/10/91	16/0		DMETGLPTA D		070	В	1	UGAL	۷	Antimony	000009				H
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/60	16/0		SMETCLPTC S1		99.4		•	*	۲	Antimony	60.0000				H
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/50	16/0		SMETCLPTC D		2	В	_	UG/L	⋖	Antimony	0000009				
SW00963WC 03/14/91	16/61/20 711P	WATER	Q10312002A	18/02/20	16/0		DMBTCLPTA TRO			æ	-	UO/L	▼	Antimony	AL 0000.09	6		_	
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/12/20 16/52/20	1/91		SMITCLPTC TRO			n	-	UG/L	<	Arsenic	10.0000 v			_	
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	18/22/20 18/52/20	16/6		DMETCLPTA S1		П		5	98	<	Arsenic	10.0000				\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/12/20 16/52/20	16/2		SMETCLPTC D		\neg	_		UG/L	<u> </u>	Arsenic	10.0000			-	-
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/12/20 16/52/20	16/2		DMETCL/TA D			5	-	UG/L	1	Arsenic	10.0000				\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/12/20 16/52/20	16/2		SMETCLPTC \$1		0.06	\dashv	-	32	<u> </u>	Arsenic	10,000				-
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/12/20 16/52/20	16/2		DMETCLPTA TRO			n	-	UG/L	<u><</u>	Arsenic	10.0000 v			-	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/01/50 16/52/61	16/0		DMETCLPTA S1		95.4	-	5	*	B	Barium	200:000				\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	18/01/30 04/10/91	16/0		DMETCLPTAD		144.3780	m		UGAL	#	Berium	200.000			-	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/50 16/50/20	16/0		SMETCL/PTC D		9	m m		Ġ/L	В	Barium	200,0000			\dashv	
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	16/01/20 04/10/91	16/0		DMETCLFTA TRO		2	В	1	UG/L	В	Barium	200.000 v				\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	19/02/91 04/10/91	16/0		SMETCL/PTC S1			-	*	8	<u> </u>	Barium	200.0000	-		-	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	18/25/50 04/10/91	16/0		SMETCLPTC TRO		٥	m		UG/L	<u> </u>	Berium	200.000c				\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	03/25/91 04/10/91	16/0		DMETCLPTA TRO		\neg	n n	1	UG/L	<u>e</u>	Beryllium	s.0000 v	-		\dashv	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	19/25/50 04/10/91	16/0		DMETCLPTAD		1.0000			UQ/L	=	Beryllium	5,0000	-			+
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91 04/10/91	16/0		SMETCLPTC S1		6.86	-	1	.	=	Beryllium	5.0000	-		-	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	19/25/91 04/10/91	16/0		SMETCL PTC D		٥	_		UG/L	4	Beryllium	5.0000			-	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	18/01/25/91 04/10/91	16/0		DMRTGLPTA S1		686	-	*	*	<u> </u>	Beryllium	2,0000		_	+	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q1@12007A	03/25/91 04/10/91	16/0		SMETCLPTC TRO	,	П	n		UG/L	<u> </u>	Beryllium	\$.0000 v	1	-	+	+
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	18/22/20	16/0		DMETCLETAD		٥	p		UG/L	۲	Cadmium	\$.0000 IA	•	$\frac{1}{2}$	\dashv	+
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91 04/10/91	16/0		SAUGTCL/PTC S1			1	1		4	Cadmium	\$.0000	$\frac{1}{1}$	$\frac{1}{2}$	\dashv	\dashv
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	19/25/81 04/1	16/0		DMETGLFTA TRO	[ي		_ _	-	NGA	ᅱ	Cadmium	\$.0000.R	6		-	1
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PROJECT COLLECTION			148	DREP AN	AMAIVE	PU ANK	TEST			2		T		TATO TO THE PARTY OF THE PARTY			3	į
	BATCH	SAMP	SAMPLE	AR DATE	DATE TRACE		PANEL	CAS	EA INN		200		Γ,	DETECTION DESCORE	CACOARC	- 2	5 6	3 8
	MUMBER	MATTH			MANDO MANDO HH:			~	RESULT			3	PARAMETER NAME	UMT V		4 RESULT	⋾	5 5
SW00963WC 03/14/91	P117 03/19/91	WATER	WATER Q10312002A	03/25/91 04/10/91	16/01/30	MG	DMBTG_FTA S1	5	98.2	_	18	-	Cadmium	5.0000				
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91 04/10/91	16/01/90	NS.	SMETCLPTC TRO	1	_	В	UGAL		Cadmium	\$.0000	E			
SW00963WC 03/14/91		WATER	QICGISOCSA	18/52/20	16/01/90	WG	DMETCLPTA TRO	61	381000.00		NOV		Calcium	> 0000.0000s		L		1
SW00963WC 03/14/91	16/61/20 2114	WATER	Q10312007A	16/01/90 16/52/60	16/01/40	SAS	SMETCLPTC TRG	F7	392000.00	L	UGAL	.,	Calcium	v 0000.0008				
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	03/25/91 04/10/91	16/01/40	MG	DMETCLFTAD	-	379517.775	-	NO/L	_	Calcium	2000.0000				
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/01/90 16/52/60	16/01/90	S	SMETCL/PTC D	3	391709.942	-	UOL	,	Calcium	0000'0005				
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	03/25/91	16/10/10	DIM	DMETNOCL, D	-	76.0000 U	_	NOV	ļ.,	Cosium	1000,0000				
	Г	WATER	Q10312007A	03/25/91 04/01/91	04/01/91	DVS	SMETNOCL P D		76.0000 U		UGAL		Cesium	1000,0000				
SW00963WC 03/14/91	Г	F-	Q10312002A	19/10/10 10/10/1/91	16/10/10	MC	DMETNOCL TRG	-	1	_	UGAL		Cosium	1000,0000 v		0.08	UG/L	>
SW00963WC 03/14/91	P117 05/19/91	WATER	Q10312007A	16/10/40 16/57/50	16/10/10	ONS	STNOCE \$1	Ē	117.0	H	*		Cesium	1000,0000				
SW00963WC 03/14/91	P117 03/19/91		Q10312007A	16/10/90 16/57/60	04/01/91	WS	SMETNOCL P TRO	1	76.00 U	_	NOV.	,	Cesium	1000.0000 v		D0.08	UGAL	>
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	19/25/91 04/01/91	16/10/10	MG	DMRTNOCL S1	-	113.0	L	*	-	Cesium	1000,0000				
SW00963WC 03/14/91	P117 03/19/91	WATTER	Q10312007A	03/25/91	16/01/40	W.S	SMETTER SI	0	91.2	H	*	-	Chromium	10,000				1
SW00963WC 03/14/91	•	WATER	Q10312002A	03/25/91 04/10/91	16/01/20	DIK	DMETCLPTA TRO	-	14.00		UQ/L	-	Chromium	9 AL 0000.01				Ь
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91 04/10/91	04/10/91	SMI	SMETCLPTC D	1	18.7430	-	UG/L		Chromium	10.0000				[
SW00963WC 03/14/91		MATTER	V200212010	18/01/90 18/52/60	04/10/91	MO	DMETGETA SI	6	97.6	_	æ		Chromium	10.0000				
SW00963WC 03/14/91		WATER	V700715010	03/25/91 04/10/91	04/10/91	MQ	DMETCLPTA D	-	16.2980		UG/L	,	Chromium	10.0000		_		
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91	16/01/40	SMI	SMETCLPTC TRO	1	19.30		UG/L		Chromium	9 At 0000.01				5
SW00963WC 03/14/91		WATER	V200212010	16/01/91 04/10/91	16/01/90	жа	DMBTCLFTA S1	6	95.0		8		Cobalt	0000005				Ī
		WATER	Q10312007A	03/25/91 04/10/91	04/10/91	SMI	SMETCLPTC TRO	9	6.10 B	_	UG/L	,	Cobalt	\$0.0000 At 9				5
SW00963WC 03/14/91	P117 03/19/91	WATER	A100012001A	16/57/20	04/10/91	SMI	SMETCLFTC D	9	6.1240 B	-	UGAL	,	Cobalt	50,000				
SW00963WC 03/14/91		WATER	Y400215010	19/25/91 04/10/91	16/10/21	SMI	SMETCL PTC S1	6	94.8		*	L	Cobalt	\$0.000				Γ
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312002A	19/01/91	16/01/40	DAG	DMETCLPTA TRO	3	3.90 B		UGAL	L.	Cobalt	6 M 0000.02				n
	P117 03/19/91	WATER	Q10312002A	03/25/91 04/10/91	16/01/91	DMC	DMETCATAD	5	5.8210 B	-	UGAL	,	Cobalt	\$0,000		L		Γ
SW00963WC 03/14/91		WATER	V200212010	16/01/90 16/52/50	04/10/91	Ма	DMETCLPTAD	9	8.6530 B		UGAL	_	Copper	25.0000				
SW00963WC 03/14/91	16/61/80 TITM	WATER	Q10312007A	03/25/91 04/10/91	16/01/40	SMI	SMETCLPTC S1	6	98.7		*		Copper	25,0000				Γ
SW00963WC 03/14/91		WATER	Q10312002A	03/25/91 04/10/91	04/10/91	MO	DMETCLPTA TRO	9	6.50 B	_	UG/L	,	Copper	25,0000 IA 9				5
SW00963WC 03/14/91		WATER	Q10312007A	03/25/91	04/10/91	SMI	SMETCLPTC TRO	4			UGAL	,	Copper	25.0000 IA 9				ם
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91 04/10/91	16/01/10	PAS:	SMETCLPTC D	4	4.1310 B		UGAL		Copper	25.0000				Γ
SW00963WC 03/14/91	16/61/20 4114	WATER	V200212010	16/01/90 16/57/20	16/01/90	DM	DMETCLPTA S1	6	8.66		8		Copper	25.0000				
SW00963WC 03/14/91	16/61/80 1114	WATER	Q10312007A	16/12/20 16/02/20	16/12/50	SMI	SMETCLPTC TRO	3	3.50 U		UGAL	L.	Cyanide	v 0000.01				
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	16/12/60 16/02/60	03/21/91	SMI	SMETCL PTC S1	8	89.5		%		Cyanide	10,000				Γ
SW00963WC 03/14/91	18/81/20 TITE	WATER	Q10312007A	16/12/20 16/02/20	16/17/20	SM	SMETCLPTC D		7.0000 U	_	UGAL		Cyanide	10,000				
SW00963WC 03/14/91	16/61/20 4114	WATER	Q10312007A	18/01/20 18/52/20	16/01/90	TWIS .	SMETCL/PTC \$1	7		z	*		Iron	100:000				Γ
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030.4.01 P117 03/19/91 WATER Q10312007A	S	SMETNOCLP S1	92.1		*		Molybdenum	200.0000		
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MATER MARKET	Ω	DMETNOCL D	S.0460 B		UGAL	Н	Molybdenum	200.0000		
CONTACT TO CONDENS WATER CONTRACTOR	8	SMETCL PTC S1	1.56		*	_	Nickel	40.0000		
CONTRACT PRINCES WATER OLGGIZOGYA	18	SARETCLFTC D		В	UG/L	_	Nickel	40.0000		
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MUNIBER DATE THE	HE BATCH	SAMPL	SAMPLE	8	DATE TRUE	AC SAMPLE	PAMEL R	RS CAS	ANALYTI					TION RE			
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	P117 03/19/91	WATER	Q10312002A	03/25/91	16/12/50		DMBTCLPTAD	-	10,0000	-	NO.		Seleminm	annimor s	-	1	1
	P117 03/19/91	WATER	Q10312002A	16/52/50	16/12/50 16/52/50		DARTICUTA TR	2	+-	NS	NO.		Selenium	- 1	1	1	1
SW00963WC 03/14/91	P117 03/19/91	WATER	Q10312007A	03/25/91	16/12/50		SAERCIPIC TR	2	T	N.S.	2 2		Calentina	- 1	1	1	1
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Ī	P117 03/19/91	- Т	QI@I20@A	03/25/91	04/10/91		DMETNOCL D		3327.9630		UGAL	-	Strontium		+		†
	P117 03/19/91	$-\mathbf{r}$	Q10312002A	03/25/91	16/01/90		DMETNOCL S1		4.66	-	3 2	-	Strontium	200,000	+	\dagger	\dagger
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Ī	- 1	_	Q10312007A	03/25/91 04/10/91	16/01/10		SMETNOCL P D		3432.8820		UG/L		Strontium		+	+	\dagger
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	T THE	BATCH	SAMPL	SAMPL SAMPLE	LAB DATE	DATE DATE TIME	THE	SAMPLE	PANEL RS	CAS	ANALYTI QUA		_	OF TION	N TO TO THE PERSON OF THE PERS	DETECTION REASONS		9FC	OF MEASU	96 A
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	Ş	P117 03/19/91	WATER	QIESTZOCTA	03/29	19/01/91 04/10/91	=		SMETCLPTC S1	5	21.16		8	-	Vanadium	\$0.000				
SW00963WC 03/14/91	16/4	P117 03/19/91	WATER	Q10312007A	03/25	03/25/91 04/10/91	11		SMETCLPTC TRO	-	_	В	NOV	T.	Vanadium	3	6			D
SW00963WC 03/14/91	164	P117 03/19/91	WATER	QICSIDOTA	03/25	18/01/90 18/52/60	11		SMERCLETC D	-		В	UG/L	'n.	Vanadium	90,000				
SW00963WC 03/14/91	16/7	P117 03/19/91	WATER	Q10312002A	2/50	16/01/90 16/52/50	11		DMBTCLPTA D	7,	25.3650		UG/L	٦	Zinc	20.0000				
SW00963WC 03/14/91	16/91	P117 03/19/91	WATER	Q10312007A	03/25	18/25/91 04/10/91	1.		SMETCLPTC S1	5	9.96	_	*	_	Zinc	20.0000				
SW00963WC 03/14/91	16/4	P117 03/19/91	WATER	Q10312007A	2750	18/01/90 18/52/50	11		SARTCLPTC D	3	33.6720		UGAL	T.	Zinc	20.0000				
SW00963WC 03/14/91	16/4	P117 03/19/91	WATER	Q10312002A	03/2	18/25/91 04/10/91	11		DAMETICATIA TRO	7	29.20	Н	UG/L	T.	Zinc	3	6			D
	īŞ	P117 03/19/91		Q10312007A	93/25	18/22/20	- -		SAUSTICLETIC TRO	7	28.20	Н	U.Q/L	V.	Zinc	20.0000 1A	6			Э
Γ	16\$	P117 03/19/91	WATER	Q10312002A	272	19/25/91 04/10/91	1		DMETCLPTA S1	ř	96.1		%	H	Zinc	20,0000				
	2,91	10/61/00 /114	WATER	QICCICOLON	2450	16/01/20 16/57/50	12		SMETNOCLE TRO	-	574.00		UG/L	T.	Alvaniawa	200.0000 v				
	2/91	L	_	Q10312010A	372	19/01/90 16/57/00	=		SMETCLIFIC TRO	32		n	UG/L	r.	Antimony	v 0000.00				
	16/2	P117 03/19/91	WATTER	Q10312010A	878	16/12/60 16/52/60	=		SMETCLIFIC TRO	1,5	2.00	U	NOV	Ψ.	Arsenic	v 0000.01				
SW60062WC 02/22/91	2/91	16/61/20 7119	WATER	Q10312010A	27/20	19/01/20 19/57/20	17		SMETCLITC TRO	(E		В	NOV	T/	Barium	200.000 v				
SW60062WC 02/22/91	18/2	P117 03/19/91	WATER	QICSIZOIOA	375	5/91 04/10/	11		SMETCLPTC TRO	-		U	7/On	\r	Beryllium	v 0000.2				
	2/91	P117 03/19/91	WATER	Q10312010A	372	18/01/90 18/52/60	17		SMETCLETC TRG	.,		U	UG/L	/L	Cadmium	v 0000.8				
	2/91	18/61/80 1114	WATER	Q10312010A	03/2	16/01/90 16/52/50	7		SMETCLPTC TRO	4	46200.00	H	UG/L	Æ	Calcium	v 0000.0008				
SW60062WC 02/22/91	2/91	16/61/50 1114	WATER	Q10312010A	2/50	18/10/10 18/52/20	31		SMETNOCLE TRG			Ω	UGAL	'n	Cesium	1000.000 v		80.0 U	UG/L	^
	2,91	P117 03/19/91	WATER	Q10312010A	03/2:	18/01/90 18/52/80	17.		SMETCLPIC TRG	-		ű	NG/L	Æ.	Chromium	10.0000 v				
SW60062WC 02/22/91	18/2	P117 03/19/91	WATER	QICEIDOIOA	2/60	18/01/20 16/52/60	11		SMETCLPTC TRO			n	UOL	Į.	Cobalt	v 0000.08				
	18/2	16/61/50 1114	WATER	Q10312010A	03/2	16/01/91 04/10/91	10		SMETCLPTC TRG	. 4	_	В	NG/L	ş	Copper		7			Ы
SW60062WC 02/22/91	2/91	16/61/20 1114	WATER	Q10312010A	03/2	16/01/90 16/52/50	14		SMETCL/PTC TRO		8	*z	UG/L	.V.	Iron	100.000 1A	11 EI VI			
SW60062WC 02/22/91	2/91	16/61/20 1114	WATER	Q10312010A	03/2	16/82/20 16/52/20	16		SMETCLPTC TRG	٠,٠		BW	UG/L	'n.	Lead		3 14 14			
	15/21	P117 03/19/91	WATER	Q10312010A	03/2:	16/01/90 16/52/60	11		SMETNOCLE TRG	_	_	В	UGAL	'n.	Lithium	3	7			D
	2/91	P117 03/19/91	WATER	Q10312010A	03/2:	03/25/91 04/10/91	ī		SMETCLPTC TRG		12000.00	-	UG/L	7	Magnesium	v 0000,0000				
SW60062WC 02/22/91	2,91	16/61/80 71.14	WATER	Q10312010A	03/2	03/25/91 04/10/91	į,		SMETCLPTC TRU		٥	-	NG/L	1	Manganese	15.0000 v				1
SW60062WC 02/22/91	2/91	16/61/50 4114	WATER	Q10312010A	04/0	04/04/91 04/04/91	12		SMETCL/PTC TRG		1	3	UG/L	ادِ	Mercury	0.2000	_			1
SW60062WC 02/Z	2/91	16/61/80 7114	WATER	Q10312010A	2/50	03/25/91 04/10/91	11		SMETNOCLE TRG		٦	B	UG/L	7	Molybdenum	200.0000 1A	7			5
SW60062WC 02/22/91	2/91	16/61/00 1114	WATER	Q10312010A	2/50	03/25/91 04/10/91	2		SMETCLPTC TRG		_		UGA	<u>.</u>	Nickel	40,0000 v				
SW60062WC 02/22/91	2/91	16/61/50 L1 14	WATER	Q10313010A	03/2	03/25/91 04/10/91	12		SMETCLPTC TRG	~	8	+	UG/L	اي	Potassium	2				1
SW60062WC 02/22/91	2/91	P117 03/19/91	WATER	Q10312010A	03/2	03/25/91 03/26/91	5		SMETCLPTC TRO	*		3	UGAL	귉	Selenium	~	E1			T
SW60062WC 02/22/91	2/91	16/61/50 7119	WATER	Q10312010A	03/2	03/25/91 04/10/91	10		SMETCLPTC TRG				DQ/L	닐	Silver	v 0000.01				
	2/91	P117 03/19/91	WATER	Q10312010A	03/2	03/25/91 04/10/91	Ē		SMETCLPTC TRO		105000.00	+	UGAL	4	Sodium	2000.0000 v				1
SW60062WC 02/22/91	2/91	16/61/20 7119	WATER	Q10312010A	03/2	03/25/91 04/10/91	31		SMETNOCLE TRO	-	٥	+	UGAL	뒣	Strontium	>	+			1
	1872	16/61/20 7117	WATER	Q10312010A	03/2	19/25/91 03/28/91	110		SMETCL/PTC TRO		٦	<u></u>	ngv	<u> </u>	Thallium	3	7			
Γ	18/2	P117 03/19/91	WATER	Q10312010A	03/2	03/25/91 04/10/91	16		SMETNOCLP TRG	-		В	ng/r	اد	Tin	3	7			5
SW60062WC 02/22/91	2/91	16/61/50 /1114	WATER	_	03/2	5/91 04/10	16		SMETCLETC TRO		7	В	UO/L	귈	Venadium		#			T
SW60062WC 02/2	16/22/20	P117 03/19/91	WATER	Q10313010A	03/2	03/25/91 04/10/91	١		SMETCL PTC TRO		173.00	+	ă	UGAL	Zinc	20,0000 v	1			T
	-											-		-]

RADIATION SCREEN 30 ゝ Z \ ≻ НΩ Q ۵ R3226, 228 Sr89/90, Cs137, 0222/224' 522' 528 O 4002-410 z PU239/240, AM241 8/A 22090 Σ DOC IF FILTERED *TEMPERATURE WITHIN SPECIFICATION* OTHER PROBLEMS OR DISCREPANCIES SZH ¥ PCKG REC'D/CUSTODY SEALS INTACT O SOUd-0 N PROJECT NO3/NO5*#H大学 'soud SAMPLE LABELS/COCs AGREE CORRECTED COPY ATTACHED TSS, TDS, CI, F, SQ4, CO3, HCO3 工 LABORATORY USE ONLY 9 CN IJ Cs, Li, Sr, Sn, Mo WETALS, OIF WAD GREASE ш ш TRIAZINES PEST/PCB-CLP C BNA-CLP Θ ⋖ 者と民族と挽り本江中中に中 **AOY-CLP** Na2S203 W.L. GLASGOW, B.E. LAHN **PRESERVATIVE H**S204 × 1636 0060 DATE/TIME HNO2 HOAN 3/1/4/ 3-19-41 **SU(CSH2OS)S** × COOLED TO 4 C Y/N OUT OF SPEC REPORTS REQUIRED 250 05 A- HEUR DNUORA NRUT d=SSIQ TOd FILTERED=F SHIPMENT METHOD MEDIA SOIL(S) WATER (W) 3 ₹ NUMBER OF CONTAINERS CONTAINER 200 ML POLY RECEIVED BY 03/14/91 500 ML POLY BOD MR. POLY Bruce LaRue (303) 966-5874 3-100 126 ML AG TZB ME. AG 11 POLY TYPE ED IMIL AG 11 POLY SAMPLERS. 1 L POLY 11 POLY WESTON GULF COAST /UNIV. PK.,IL 11_AG LOCATION 18 SS EG&G ROCKY FLATS PLANT DATE/TIME SWORE SW095 SWOOS SWORS 3W095 SWORE SWORE SWORE SWOOE SWORE 380MS SWORE WC-EXBBB3 JULION, WOODWARD-CLYDE FEDERAL SERVICES CHAIN OF CUSTODY 84-31 SAMPLE NUMBER SWOODESWC SWOODESWC 1525 SWOODESWC SW00963WC SWOODESWC SWOODESWC SWOODESWC SWOODESWC SWOODESWC SWOODESWC SWOODESWC SWOODESWC SITE CONTACT/PHONE __ FC & 6 RELINQUISHED BY 1522 1535 LAB/LOCATION. 1520 15.12 1527 THE ST 1515 CONTRACTOR. DATE/TIME REMARKS 3-4-4

ER DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Bato	h No. 9103P117					_ Site	Surface	Water		
Lab	oratory <u>ITAS - Pit</u>	tsburgh				_ No.	of Samp	ples/Mat	rix <u>3/W</u>	ater
Met	hod Standard Met	hods				Rev	iewer O	rg. Qua	ntaLex.	Inc.
Sam	ple Numbers <u>SW</u>	0962W	C. SW00	963WC	. SW600	62WC				
	•				ssessme		mary			
		TOC/ DOC	Silica/ F	Phos.	Alkal.	Cl	Nitrate/ Nitrite	Sulfide/C Sulfate	Dil&Greas Grav.	se Comments
1.	Holding Times	<u>v</u>	<u></u>	_A	_A	<u>_v</u>	_A	_A	_A	Action Items 1-2
2.	Calibrations	<u>v</u>	<u>v</u>	<u>v</u>	_Y	<u>_v</u>	<u>v</u>	<u>v</u>	<u>_v</u>	
3.	Blanks	<u>v</u>	<u>v</u>	<u>_v</u>	<u>_V</u>	<u></u>	<u>v</u>	<u>v</u>	<u>v</u>	
4.	Lab Control Sample Results	N/A	<u>_v</u>	<u>N/A</u>	<u>_v_</u>	<u>_v</u>	<u>N/A</u>	N/A	<u>v</u>	
5.	Duplicate Sample Results	<u>v</u>	<u>v</u>	<u>v</u>	<u>_v</u>	<u></u>	<u>_v</u>	<u></u>	<u>_v</u>	
6.	Matrix Spike Sampl Results	e_ <u>V</u>	<u>v</u>	<u>v</u>	<u>v</u>	<u>_v</u>	<u>A</u>	<u>v</u>	<u></u>	Action Item 3
7.	Sample Verification	<u></u>	<u>v</u>	<u>v</u>	<u>v</u>	<u>v</u>	<u>v</u>	<u>v</u>	<u>v</u>	
8.	Other QC	<u>v</u>	<u>v</u>	<u>v</u>	<u>X</u>	<u>v</u>	<u>v</u>	<u>X</u>	<u>X</u>	Comments 1-3 Data valid or acceptable
9.	Overall Assessment	<u>v</u>	<u>v</u>	<u>A</u>	<u>_A</u>	<u>v</u>	_A	_A	_A	with qualifications
	V = Data had no problems A = Data acceptable but qu R = Data rejected. X = Problems, but do not a	ialified due	to problems.						N/A = N	ot applicable.
Dat	a Quality: Data cont	ained in t	his batch w	vere reviev	wed and fo	und to be	valid or a	cceptable '	with qualif	ications, Acceptable,
qual	fied data may be used p	rovided t	<u>hat individ</u>	ual values	impacted	by the "A	ction Item	s" listed b	elow are a	ppropriately flagged.
(Ref	er to attached Results Su	ımmary 🛚	Tables).							

Action Items: 1) All Nitrite and o-Phosphate values are estimated (J) because the	e holding times were exceeded.
2) The Alkalinity, Sulfate, TDS and TSS values for SW60062WC are estimated	(J) because the holding times
were exceeded.	
3) All Nitrate/Nitrite values are estimated (J), and non-detects are estimated and	undetected (UJ) because the
matrix spike recovery was outside control limits.	
Comments: 1) The Sulfate daily calibration standardization should be analyzed y	with three standards and a
blank; data not affected.	
2) A laboratory duplicate and matrix spike were not analyzed for Oil/Grease; da	ata not affected.
3) All Carbonate non-detects are reported to the IDL; correct values appear on t	he summary table.
Note: Data Summary Tables are attached.	
William H. gress	5/7/91
Validator Signature	Date
All A	5/2/01
Reviewer Signature	Date

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	PARAMETER MAME	2	SOFFIC	OIL & GREASE	DISSO	SUSP	BICARBONATE	CARBONATE	SIDE			200	NITRATEMENTE	Ë	S	080	L M	BICARBONATE	CARBONATE	CHLORIDE	SVE	CVED	100	NITRATEMETRITE		OIL & GREASE	OPHO	\ \	A TE	DE	L DISS	000	, OKG	12	120	2	L SUS	BICARBONATE	BICARBONATE	BICARBONATE	CARBONATE
	PARAM	NIRTE	ORTH	OIL &	TOTAL	TOTA	Sign	3	FLUORIDE	VII ICA	SUI PIDE	HOLEO DE	Ę	SULPATE	DISSO	TOTA	TOTA	3	3	Otto	DISSC	DISSE	FLUORIDE	SEL	NTRITE	OIL.	ORTH	STICA	SULPATE	SULFIDE	Š	è	ě	Š	è	È	È	설	<u>설</u>	실	3
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SWCGOOK 3WC	0.014.01	P117 G3/19/91	MATA	010312002	1	040461	Ē			TRO D	9			XQ.		TOTAL ORGANIC CARBO	97	>				
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RADIATION SCREEN

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ASI 2008-6103 Z \ } PROJECT . LUCES 4802-1 TEMPERATURE WITHIN SPECIFICATION OTHER PROBLEMS OR DISCREPANCIES PCKG REC'D/CUSTODY SEALS INTACT Expar SAMPLE LABELS/COCs AGREE CORRECTED COPY ATTACHED LABORATORY USE ONLY K N92S203 9665874 LAB/LOCATION. **PRESERVATIVE** HSSO4 НИОЗ 13 75 34-41 0800 A 10 13 1 DATE/TIME HOAN ZU(CSH2OS)S JUILLAND 3/12/41 COOLED TO 4 C YAM OUT OF SPEC REPORTS REQUIRED A= HSUR QNUORA NRUT FILTERED=F POT DISS=P SHIPMENT METHOD MEDIA SOIL(S) WATER (W) 9 3 (203) NUMBER OF CONTAINERS CONTAINER RECEIVED BY SAMPLERS 50060000 SW0231-11-12 TYPE SITE CONTACT/PHONE BRUCE LA RUE LOCATION 1100 1116 6062 NOC 1514023 1760 DATE/TIME EG&G ROCKY FLATS PLANT WOODWARD CLYDE 52RV1C25 NC - EXDOD CHAIN OF CUSTODY C-O-C NUMBER 40 PM POTO 11/1/1/2 14/81 SAMPLE NUMBER CONTRACTOR ES D. INQLA SHED BY DATE/TIME REMARKS